
CST1204: Introduction to Databases

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Week 12 Session 1

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TEST THREE Review

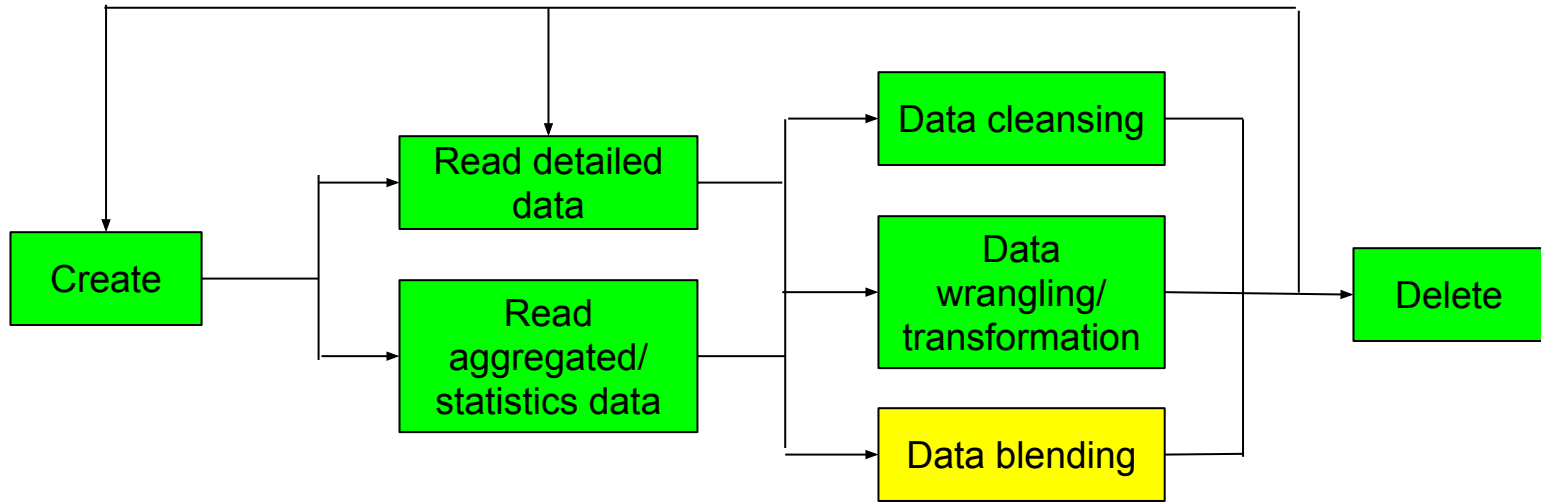
- CREATE with multi-column primary key
- Proper syntax for INSERT, UPDATE, DELETE, and ALTER
- IS NULL, = NULL, IS 'NULL'
- SELECT DISTINCT UPPER(), not WHERE UPPER()
- Missing GROUP BY or missing matching columns in GROUP BY
- GROUP BY ... HAVING COUNT() > 100
- Subquery

Agenda

- Join definition
 - Column qualifier
 - Table Alias

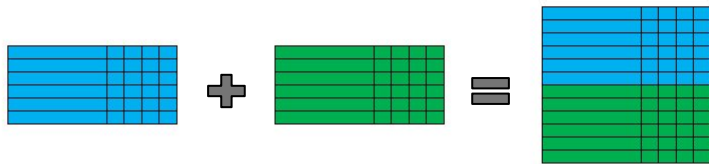
Data Lifecycle Operations

Our current progress:

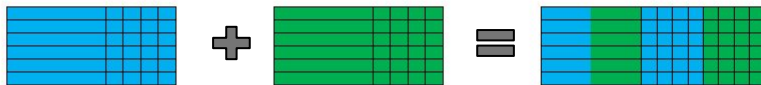


Data Blending

- Vertical Blending
 - Set operations



- Horizontal Blending
 - Join



Relationship between Tables

- Need to lookup a value from another table: Rep name for a customer

CUSTOMER

Cust_Num	Cust_Name	...	Rep_Num
1	Bill	...	101
2	Frank	...	103
3	Amy	...	101

REP

Rep_Num	Rep_Name
101	Jeff
102	Jose
103	Jill



Join

- Linking two tables by matching common column(s)

```
SELECT REP_NAME  
FROM CUSTOMER, REP      -- Note the comma!!!  
WHERE CUSTOMER.REP_NUM = REP.REP_NUM
```

CUSTOMER

Cust_Num	Cust_Name	...	Rep_Num
...

REP

Rep_Num	Rep_Name
...	...

Qualifying Columns and Tables

- How to qualify a column (identify which table it belongs to)

```
SELECT REP.REP_NAME      -- Optional if not ambiguous
FROM CUSTOMER, REP
WHERE CUSTOMER.REP_NUM = REP.REP_NUM
```

- How to qualify a table using alias

```
SELECT r.REP_NAME
FROM CUSTOMER c, REP r
WHERE c.REP_NUM = r.REP_NUM
```

Hands On

- Chapter 5 exercise questions for TAL Distributors 1-3

Homework

- Chapter 5 exercise questions for Colonial Adventures 1-5